

Title (en)
Machine for fitting and removing vehicle wheel tires

Title (de)
Reifen-Montagemaschine

Title (fr)
Machine de montage de pneumatiques

Publication
EP 1623850 B1 20080409 (EN)

Application
EP 05107005 A 20050729

Priority
IT MO20040205 A 20040803

Abstract (en)
[origin: EP1623850A1] A machine (1) for fitting and removing vehicle wheel tires, comprising a supporting frame (2) for elements (3) for coupling and rotating a rim (C) about a rotation axis (A) and for a working arm (4) provided with one end on which a working head (5) is supported for fitting and removing a tire (P) on and from the rim (C), the coupling and rotation elements (3) being movably associated with the frame (2) by interposing elements (6) for movement on a plane that is substantially perpendicular to the rotation axis, the arm (4) being movably associated with the frame (2) by way of the interposition of first elements (7) for translational actuation in a direction that is substantially parallel to the rotation axis of the rim (C), second actuation elements (8) being interposed between the arm (4) and the first actuation elements (7) and being adapted to allow the arm (4) to move between a first active end configuration, in which the working head (5) is arranged proximate to the first actuation elements (7), and a second active end configuration, in which the working head (5) is substantially spaced with respect to the first actuation elements (7).

IPC 8 full level
B60C 25/135 (2006.01)

CPC (source: EP US)
B60C 25/0593 (2013.01 - EP US); **B60C 25/135** (2013.01 - EP US); **B60C 25/0518** (2013.01 - EP)

Cited by
CN105799433A; CN106080060A; EP1977913A1; ITVR20090097A1; EP2281699A1; CN101992662A; ITMO20090209A1; US8424584B2; US7740043B2; WO2009138322A1; EP3741591A1; IT201900007034A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1623850 A1 20060208; EP 1623850 B1 20080409; AT E391616 T1 20080415; CN 100478199 C 20090415; CN 1733514 A 20060215; DE 602005005904 D1 20080521; DE 602005005904 T2 20090604; ES 2303665 T3 20080816; IT MO20040205 A1 20041103; PL 1623850 T3 20080829; US 2006027334 A1 20060209; US 7188657 B2 20070313

DOCDB simple family (application)
EP 05107005 A 20050729; AT 05107005 T 20050729; CN 200510091138 A 20050803; DE 602005005904 T 20050729; ES 05107005 T 20050729; IT MO20040205 A 20040803; PL 05107005 T 20050729; US 19217705 A 20050729